

Weekly Report

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Intro

In this week I spent most of my time on the visualization framework project.

Projects

Visualization Framework Wanqi and I have finished the frameworks of the core library, including two core data structure: CoreModel and Connectors.

- CoreModel is a abstract entity that contains four types of implementations: Dataset, Variable, Geometry and Coordinates.
- Connector is another abstract entity that represents the transforming operations from a type of CoreModel to another. Currently we have defined following types of implementations: DataAbstractor (Dataset \rightarrow Variable); DataTransformer (Variable \rightarrow Variable); VisualMapper (Variable \rightarrow Geometry); Assigner (Variable \rightarrow Coordinates). A container named Pipeline holds all the connectors and their relations of connection, which records the entire visualization pipeline formally.

Plan for Next Week

- For visualization framework project, in the next a we are going to implement the connectors used to construct a scatterplot view. Besides, an editing panel is planned to show the Connectors in a Pipeline and provide editing methods for users.